

EAST Search History / Interference Search

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	166	dividing wall column	US-PGPU B; USPAT	ADJ	ON	2007/09/25 07:38
L2	2372	toluenediamine	US-PGPU B; USPAT	ADJ	ON	2007/09/25 07:38
L3	2	L2 and L1	US-PGPU B; USPAT	ADJ	ON	2007/09/25 07:38
L4	1	"20070083065"	US-PGPU B; USPAT	ADJ	ON	2007/09/25 07:39
L5	353835 5	high	US-PGPU B; USPAT	ADJ	ON	2007/09/25 07:39
L6	1	L5 and L4	US-PGPU B; USPAT	ADJ	ON	2007/09/25 07:39
L7	0	seperating wall column	US-PGPU B; USPAT	ADJ	ON	2007/09/25 07:39
L8	11	separating wall column	US-PGPU B; USPAT	ADJ	ON	2007/09/25 07:39
L9	2968	tda	US-PGPU B; USPAT	ADJ	ON	2007/09/25 07:40
L10	5078	l9 or l2	US-PGPU B; USPAT	ADJ	ON	2007/09/25 07:40
L11	175	l1 or l8	US-PGPU B; USPAT	ADJ	ON	2007/09/25 07:40
L12	6	l11 and l10	US-PGPU B; USPAT	ADJ	ON	2007/09/25 07:40

EAST Search History / INTERFERENCE SEARCH

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"20070083065"	US-PGPU B; USPAT	ADJ	ON	2007/09/25 06:30
L2	353835 5	high	US-PGPU B; USPAT	ADJ	ON	2007/09/25 06:30
L3	1	I2 and I1	US-PGPU B; USPAT	ADJ	ON	2007/09/25 06:36
L4	166	dividing wall column	US-PGPU B; USPAT	ADJ	ON	2007/09/25 06:36
L5	2968	tda or toluylenediamine	US-PGPU B; USPAT	ADJ	ON	2007/09/25 06:36
L6	5	I5 and I4	US-PGPU B; USPAT	ADJ	ON	2007/09/25 06:36

CAS ONLINE PRINTOUT

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(FILE 'HOME' ENTERED AT 06:45:33 ON 25 SEP 2007)

FILE 'REGISTRY' ENTERED AT 06:45:53 ON 25 SEP 2007

FILE 'CPLUS' ENTERED AT 06:45:59 ON 25 SEP 2007

E US20070083065/PN

L1 1 S E3
 L2 784 S TOLUENEDIAMINE/IT
 L3 70602 S ENGINEERING/IT
 L4 0 S L3 AND L2
 L5 38932 S DISTILLATION/IT
 L6 5 S L2 AND L5

=> d bib abs it 1-5

L6 ANSWER 1 OF 5 CPLUS COPYRIGHT 2007 ACS on STN
 AN 2007:63639 CPLUS
 DN 146:162903
 TI Hydrogenation and distillation process for the preparation of toluenediamines
 IN Pennemann, Bernd; Brady, Bill; Buse, Rainer; Greger, Gerd
 PA Bayer Materialscience AG, Germany
 SO U.S. Pat. Appl. Publ., 12pp.
 CODEN: USXXCO

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2007015940	A1	20070118	US 2006-482404	20060707
	DE 102005032430	A1	20070125	DE 2005-102005032430	20050712
	EP 1746083	A1	20070124	EP 2006-13434	20060629
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
	CN 1896047	A	20070117	CN 2006-10105898	20060711
	KR 2007008414	A	20070117	KR 2006-64732	20060711
	JP 2007023033	A	20070201	JP 2006-190679	20060711

PRAI DE 2005-102005032430 A 20050712

AB Toluenediamine is produced and separated from byproducts of the reaction by:
 (a) hydrogenating dinitrotoluenes in the presence of a catalyst; (b) separating the catalyst, water and optional solvent from the hydrogenation reaction mixture to give crude toluenediamines; and (c) separating, by distillation,

the crude

toluenediamines in a separating-wall column into at least four product streams P1, P2, P3, and P4. Product stream P1 is a stream containing low boilers. Product stream P2 is a stream containing o-toluenediamine. Product stream P3 is a stream containing m-toluenediamine. Product stream P4 is a stream containing

high boilers and m-toluenediamine. Process flow diagrams are presented.

IT Amines, preparation

RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
 (aromatic, toluenediamines; hydrogenation and distillation process for the preparation of toluenediamines)

IT Nitro compounds

RL: RCT (Reactant); RACT (Reactant or reagent)
 (dinitrotoluenes; hydrogenation and distillation process for the preparation of

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toluenediamines)

IT Distillation
Hydrogenation
Hydrogenation catalysts
(hydrogenation and distillation process for the preparation of toluenediamines)

IT Isocyanates
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(m-TDI; preparation of)

IT Acylation
(phosgenation; of m-toluenediamine)

IT Distillation columns
(separating-wall column; hydrogenation and distillation process for the preparation of toluenediamines)

IT 95-70-5P, p-Toluenediamine
RL: PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PREP (Preparation); PROC (Process)
(distillation of)

IT 7732-18-5P, Water, preparation
RL: BYP (Byproduct); PEP (Physical, engineering or chemical process); REM (Removal or disposal); PREP (Preparation); PROC (Process)
(hydrogenation and distillation process for the preparation of toluenediamines)

IT 95-80-7P, m-Toluenediamine
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(hydrogenation and distillation process for the preparation of toluenediamines)

IT 26966-75-6P
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PUR (Purification or recovery); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(hydrogenation and distillation process for the preparation of toluenediamines)

IT 25321-14-6, Dinitrotoluene
RL: PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(hydrogenation and distillation process for the preparation of toluenediamines)

IT 1333-74-0, Hydrogen, reactions
RL: PEP (Physical, engineering or chemical process); RGT (Reagent); PROC (Process); RACT (Reactant or reagent)
(hydrogenation and distillation process for the preparation of toluenediamines)

IT 26471-62-5P, Toluenediisocyanate
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 75-44-5, Phosgene
RL: PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(reaction of m-toluenediamine with)

L6 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:638835 CAPLUS
DN 143:135243
TI Method for the distillative recovery of toluenediamines using a partition

CAS ONLINE PRINTOUT

distillation column
 IN Knoesche, Carsten; Sohn, Martin; Penzel, Ulrich; Pallasch, Hans-Juergen;
 Georgi, Gunter; Mackenroth, Wolfgang; Schwarz, Hans Volkmar; Maixner,
 Stefan; Molz, Gerald; Stroefer, Eckhard
 PA BASF Aktiengesellschaft, Germany
 SO PCT Int. Appl., 17 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005066113	A1	20050721	WO 2005-EP81	20050107
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 102004001456	A1	20050811	DE 2004-102004001456	20040108
	EP 1706370	A1	20061004	EP 2005-700737	20050107
	EP 1706370	B1	20070905		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
	CN 1910133	A	20070207	CN 2005-80002158	20050107
	JP 2007519638	T	20070719	JP 2006-548223	20050107
	US 2007083065	A1	20070412	US 2006-585648	20060707
PRAI	DE 2004-102004001456	A	20040108		
	WO 2005-EP81	W	20050107		
AB	A method is presented for the distillative recovery of toluenediamines (TDA) from an educt flow containing TDA, high boilers, and low boilers in a partition column in which a partition is disposed in the longitudinal direction of the column so as to form a common upper column zone, a common bottom column zone, a feeding section that encompasses a rectification section and a stripping section, and a withdrawal section encompassing a rectification section and a stripping section. The distillation method comprises: (A) the educt flow is delivered to the feeding section of the partition column; (B) a low-boiler fraction is discharged via the top of the column; (C) TDA is discharged via a lateral discharge point located in the withdrawal section of the partition column; and (D) a high-boiler fraction is discharged via the bottom of the column. A process flow diagram is presented.				
IT	Amines, preparation RL: EPR (Engineering process); PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PYP (Physical process); PREP (Preparation); PROC (Process) (diamines, aromatic, toluenediamines; method for the distillative recovery of toluenediamines using a partition distillation column)				
IT	Distillation (method for the distillative recovery of toluenediamines using a partition distillation column)				
IT	Distillation columns (partition; method for the distillative recovery of toluenediamines using a partition distillation column)				
IT	95-80-7P, 2,4-Toluenediamine 823-40-5P, 2,6-Toluenediamine 26764-44-3P				

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RL: EPR (Engineering process); PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PYP (Physical process); PREP (Preparation); PROC (Process)

(method for the distillative recovery of toluenediamines using a partition distillation column)

IT 95-53-4, o-Tolidine, processes 496-72-0, 3,4-Toluenediamine
7732-18-5, Water, processes

RL: EPR (Engineering process); PEP (Physical, engineering or chemical process); PYP (Physical process); REM (Removal or disposal); PROC (Process)

(method for the distillative recovery of toluenediamines using a partition distillation column)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2003:985771 CAPLUS

DN 140:28151

TI Process for the purification of mixtures of toluene diisocyanate incorporating a dividing-wall distillation column

IN Brady, Bill; Steffens, Friedhelm; Keggenhoff, Berthold; Verkerk, Kai; Ruffert, Gerhard

PA Bayer A.-G., Germany

SO Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1371633	A1	20031217	EP 2002-13460	20020614
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	EP 1371635	A1	20031217	EP 2003-12498	20030602
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	CA 2431439	A1	20031214	CA 2003-2431439	20030609
	US 2003230476	A1	20031218	US 2003-457307	20030609
	US 7118653	B2	20061010		
	MX 2003PA05248	A	20040505	MX 2003-PA5248	20030612
	CN 1467202	A	20040114	CN 2003-141072	20030613
	JP 2004155760	A	20040603	JP 2003-168858	20030613
	BR 2003002097	A	20040908	BR 2003-2097	20030613
PRAI	EP 2002-13460	A	20020614		

AB A process for the purification of toluene diisocyanate (TDI), from a crude distillation feed comprising >2% phosgene, by separating the crude distillation feed in a dividing-wall distillation column into four product fractions (i.e., P1-P4): P1 is a phosgene-enriched, low-boiler product; P2 is a solvent-enriched product; P3 is a high boiler-enriched bottoms fraction; and P4 is a TDI product stream. Apparatus and process flow diagrams are presented.

IT Isocyanates

RL: EPR (Engineering process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PREP (Preparation); PROC (Process)

(aromatic, toluenediisocyanates; process for the purification of mixts. of toluene diisocyanate incorporating a dividing-wall distillation column)

IT Amines, reactions

RL: EPR (Engineering process); PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)

(diamines, aromatic, toluenediamines; manufacture of TDI by phosgenation of)

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IT Distillation columns
 (dividing-wall; process for the purification of mixts. of toluene diisocyanate incorporating a dividing-wall distillation column)

IT Acylation
 (phosgenation; of toluenediamine in the manufacture of TDI)

IT Distillation
 (process for the purification of mixts. of toluene diisocyanate incorporating a dividing-wall distillation column)

IT 75-44-5, Phosgene
 RL: EPR (Engineering process); PEP (Physical, engineering or chemical process); PYP (Physical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
 (in a process for the purification of mixts. of toluene diisocyanate incorporating a dividing-wall distillation column)

IT 26764-44-3
 RL: EPR (Engineering process); PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
 (preparation of TDI from)

IT 26471-62-5P, TDI
 RL: EPR (Engineering process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PYP (Physical process); PREP (Preparation); PROC (Process)
 (process for the purification of mixts. of toluene diisocyanate incorporating a dividing-wall distillation column)

IT 71-43-2, Benzene, uses 95-50-1, 1,2-Dichlorobenzene 98-95-3,
 Nitrobenzene, uses 100-66-3, Anisole, uses 106-46-7,
 1,4-Dichlorobenzene 108-88-3, Toluene, uses 108-90-7, Chlorobenzene,
 uses 1330-20-7, Xylene, uses
 RL: EPR (Engineering process); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process); USES (Uses)
 (solvent; in a process for the purification of mixts. of toluene diisocyanate incorporating a dividing-wall distillation column)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2002:214928 CAPLUS
 DN 136:249376
 TI Stripping process for separating mixtures of materials having different boiling points
 IN Brady, Bill L.; Weymans, Guenther; Keggenhoff, Berthold
 PA Bayer Corporation, USA
 SO U.S., 10 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6359177	B1	20020319	US 2000-738297	20001215
CA 2431312	A1	20020620	CA 2001-2431312	20011212
WO 2002048075	A1	20020620	WO 2001-US47907	20011212
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,				

CAS ONLINE PRINTOUT

BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG
AU 200235184 A 20020624 AU 2002-35184 20011212
EP 1349820 A1 20031008 EP 2001-985540 20011212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
BR 2001016150 A 20031021 BR 2001-16150 20011212
JP 2004524285 T 20040812 JP 2002-549612 20011212
TW 567180 B 20031221 TW 2001-90130844 20011213
MX 2003PA05274 A 20030925 MX 2003-PA5274 20030612
PRAI US 2000-738297 A 20001215
WO 2001-US47907 W 20011212

AB A mixture of materials having different b.ps. is separated into fractions having

different b.ps. The separated fraction containing the desired product is stripped

using the vapors of a lower boiling fraction. This process is particularly useful for recovering a desired isomer or isomer mixture from a tech. mixture obtained during production of an aromatic amine such as toluenediamines. Little or no unwanted isomer or byproduct is present in the isomer or isomer mixture product of this process; process flow diagrams are presented.

IT Amines, preparation

RL: EPR (Engineering process); PEP (Physical, engineering or chemical process); PNU (Preparation, unclassified); PUR (Purification or recovery); PREP (Preparation); PROC (Process)
(diamines, aromatic; stripping process for separating mixts. of materials having different b.ps.)

IT Distillation

Distillation columns

(stripping process for separating mixts. of materials having different b.ps. using)

IT Columns and Towers

(stripping; stripping process for separating mixts. of materials having different b.ps. using)

IT 95-70-5P, 2,5-Toluenediamine 95-80-7P, 2,4-Toluenediamine 496-72-0P, 3,4-Toluenediamine 823-40-5P, 2,6-Toluenediamine 2687-25-4P, 2,3-Toluenediamine 26764-44-3P

RL: EPR (Engineering process); PEP (Physical, engineering or chemical process); PNU (Preparation, unclassified); PUR (Purification or recovery); PREP (Preparation); PROC (Process)
(stripping process for separating mixts. of materials having different b.ps.)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1973:85297 CAPLUS
DN 78:85297
TI Fire-resistant urethane polymer foams
IN Dietrich, Werner; Grave, Heinrich; Liebsch, Dietrich; Pfirschke, Johannes; Richert, Karl Hartwig
PA Farbenfabriken Bayer A.-G.
SO Ger. Offen., 22 pp.
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2117575	A	19721019	DE 1971-2117575	19710410

CAS ONLINE PRINTOUT

BE 781790	A1	19721009	BE 1972-116041	19720407
NL 7204703	A	19721012	NL 1972-4703	19720407
IT 954410	B	19730830	IT 1972-49447	19720407
AT 312941	B	19740125	AT 1972-3014	19720407
ES 401617	A1	19750216	ES 1972-401617	19720408
ES 401618	A1	19750216	ES 1972-401618	19720408
FR 2132828	A5	19721124	FR 1972-12510	19720410
GB 1365629	A	19740904	GB 1972-16337	19720410

PRAI DE 1971-2117575 A 19710410

AB The residue from the distillation of the product mixture from the phosgenation of

tolylenediamine (I, containing mostly 2,4-and 2,6-isomers) was mixed with tolylene diisocyanate (II, contg 2,4- and (or) 2,6-isomers) and treated with water and castor oil polyethylene glycol polyether, with morpholine and methyl p-toluenesulfonate, or with 2,5-dichloro-1,4-phenylenediamine to give a polyisocyanate in which 5-25 weight% of the NCO groups had been converted to biuret groups, and which was used to prepare the title foams.

Thus, the residue from the distillation of the product from the phosgenation of I (containing >0.5, .sim.65, and .sim.35% ortho, 2,4, and 2,6 isomers, resp.) was mixed with II (contg 80% 2,4- and 2,6-isomers and castor oil polyethylene glycol polyether, heated 60 min at 85.deg. while water was added and the product mixture heated 2 hr at 170.deg. to give a biuret group-containing polyisocyanate of 1500 cP at 25.deg. and 34.7% NCO content. A mixture containing poly(propylene oxide) [25322-69-4] of OH number 395, endo-ethylenepiperazine, CFC13, and the above prepared polyisocyanate was stirred at a high speed and hardened to give a foam of d. 28 kg/m³, compression strength 1.0 kg/cm², and softening point 130.deg..

IT Urethane polymers, preparation

RL: PREP (Preparation)

(cellular, from methylphenylene isocyanate preparation distillation residue reaction products containing biuret groups)

IT Castor oil

RL: PREP (Preparation)

(ethers with polyethylene glycol, reaction products with methylphenylene isocyanate preparation distillation residues, biuret group-containing,

polyurethane foam manufacture from)

IT Fire-resistant materials

(polyurethane foams, containing biuret groups).

IT 110-91-8D, Morpholine, reaction products with methyl-m-phenylene isocyanate preparation distillation residues 20103-09-7D, 1,4-Benzenediamine, 2,5-dichloro-, reaction products with methyl-m-phenylene isocyanate preparation distillation residues 25322-68-3D, Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy-, ether with castor oil, reaction products with methyl-m-phenylene isocyanate preparation distillation residues

RL: USES (Uses)

(biuret group-containing, polyurethane foam manufacture from)

IT 108-19-0DP, Imidodicarbonic diamide, derivs.

RL: PREP (Preparation)

(polyisocyanates containing, preparation of, and polyurethane foam manufacture from)

IT 26471-62-5P

RL: PREP (Preparation)

(preparation of, distillation residues from, polyurethane foam manufacture from)

IT 823-40-5

RL: USES (Uses)

(reaction of 2,4-toluenediamine-containing, with phosgene, distillation residues from, polyurethane foam manufacture from)

IT 95-80-7

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RL: USES (Uses)

(reaction of 2,6-toluenediamine-containing, with phosgene, distillation residues from, polyurethane foam manufacture from)

IT 75-44-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with toluenediamines in polyisocyanate manufacture)

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(FILE 'HOME' ENTERED AT 06:45:33 ON 25 SEP 2007)

FILE 'REGISTRY' ENTERED AT 06:45:53 ON 25 SEP 2007

FILE 'CAPLUS' ENTERED AT 06:45:59 ON 25 SEP 2007

E US20070083065/PN

L1 1 S E3
L2 784 S TOLUENEDIAMINE/IT
L3 70602 S ENGINEERING/IT
L4 0 S L3 AND L2
L5 38932 S DISTILLATION/IT
L6 5 S L2 AND L5
L7 40 S DIVIDING WALL COLUMN
L8 0 S L7 AND L2
L9 410 S TOLUYLENEDIAMINE
L10 0 S L9 AND L7
L11 398 S L9 NOT L2

=> s 19 and 15

L12 0 L9 AND L5

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